

SABIC Innovative Plastics Valox® 830R PBT (Asia Pacific)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

30% glass filled, release grade, polyester alloy. This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Valox-830R-PBT-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.54 g/cc	1.54 g/cc	ASTM D 792
Water Absorption	0.060 % @Time 86400 sec	0.060 % @Time 24.0 hour	ASTM D 570
Linear Mold Shrinkage, Flow	0.0030 - 0.0080 cm/cm @Thickness 3.20 mm	0.0030 - 0.0080 in/in @Thickness 0.126 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	106 MPa	15400 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	103 MPa	14900 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	4.0 %	4.0 %	Type I, 50 mm/min; ASTM D 638
Flexural Yield Strength	172 MPa	24900 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	6.89 GPa	999 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.800 J/cm @Temperature 23.0 Â°C	1.50 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	45.3 Âµm/m-Â°C @Temperature -40.0 - 60.0 Â°C	25.2 Âµin/in-Â°F @Temperature -40.0 - 140 Â°F	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	192 Â°C @Thickness 3.20 mm	378 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
	193 Â°C @Thickness 6.40 mm	379 Â°F @Thickness 0.252 in	unannealed; ASTM D 648
UL RTI, Electrical	120 Â°C	248 Â°F	UL 746B

Thermal Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Volume Resistivity	4.00e+16 ohm-cm	4.00e+16 ohm-cm	ASTM D 257
Dielectric Constant	3.5	3.5	ASTM D 150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

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